

DRAFT DELTA PLAN OUTLINE
~~December 6, 2010~~ January 13, 2011

EXECUTIVE SUMMARY

Delta: ~~Critical as a Central Link for~~ to the Delta and California

Existing and Impending Risks to the Delta and California

Existing and Future Drivers of Change

Description of the Delta Plan

Achieving the Coequal Goals for the Delta for the Delta and California Through the Delta Plan

Purpose and Use of the Delta Plan

CHAPTER 1: BACKGROUND AND NEED FOR THE DELTA PLAN

Delta: ~~Critical to as a Central Link for~~ the Delta and California

Findings

~~Changes in the Delta and California since the 1800s~~

Existing and Impending Risks to the Delta and California

Existing and Impending Risks to Reliable California Water Supplies

Existing and Impending Risks to the Delta Ecosystem

Existing and Impending Risks to Unique Cultural, Recreational, Natural Resources, and Agricultural Values of the Delta

~~Initiating Development of the Delta Plan~~

Challenges and Opportunities to Development of the Delta Plan

CHAPTER 2: PURPOSE AND USE OF THE DELTA PLAN

Implementation of the Coequal Goals and ~~all Inherent Subgoals and Policy~~ Objectives

List of Statutory Coequal Goals and Delta Plan Project Objectives

Use of Delta Plan for Common Planning Purposes ~~by Delta Stewardship Council and Other Agencies~~

Basis for Future Findings of Consistency

Geographical Area ~~Considered for Use of~~ Affected by the Delta Plan

Use of the Delta Plan by Delta Stewardship Council and Other Agencies

Implementation Horizons for Delta Plan Objectives

Initial Five Years

Near Term (by 2025)

Mid-Century (by 2050)

Long Term (by 2100)

PRELIMINARY DELTA PLAN OUTLINE - continued

~~Near-Term Planning Horizon~~

~~Long-Term Planning Horizon~~

~~Limited Availability of Meaningful and Comparative Data and Responses to Improve
Five Year Review and Update Process~~

CHAPTER 3: ORGANIZATION OF THE DELTA PLAN

Description of Six Functions to Implement Policy Combining Statutory Objectives into Six Categories

Water Resources Objectives: Manage water resources of the state over the long term;

Promote statewide conservation, water use efficiency, and sustainable water use;

Improve the water conveyance system and expand statewide water storage

Restore the Delta ecosystem, including its fisheries and wildlife, as the heart of a healthy estuary and wetland ecosystem

Improve water quality to protect human health and the environment consistent with achieving water quality objectives

Reduce risks to people, property, and state interests in the delta by effective emergency preparedness, appropriate land uses, and investments in flood protection

Protect and enhance the unique cultural, recreational, and agricultural values of the California Delta as an evolving place

Establish a new governance structure with the authority, responsibility, accountability, scientific support, and adequate and secure funding to achieve these objectives

Definitions of Components

Coequal Goals

Objectives

~~Findings and Policies~~

Strategies

Performance Measures, Targets, and Monitoring

Water Supply Reliability

Best Available Science

Best Engineering Practices (including life-cycle planning)

~~Adaptive Management—Recognizing Uncertainty and Responses~~

PRELIMINARY DELTA PLAN OUTLINE - continued

CHAPTER 4: DEVELOPMENT AND EVALUATION OF DELTA PLAN ALTERNATIVES AND SELECTION OF PROPOSED PLAN

Inclusion of Science, Engineering, and Adaptive Management

Use of Best Available Science

Use of Best Engineering Practices (including consideration of life cycle values and regulatory requirements)

Inclusion and Consideration of Other Plans Identified in SBX7 1

Adopted or Completed Plans

Plans Under Development (including Bay Development and Conservation Plan)

Bay-Delta Conservation Program

Delta Protection Commission Economic Sustainability Plan

Department of Fish and Game Delta Ecosystem Flow Criteria Recommendations

State Water Resources Control Board Delta Ecosystem Flow Criteria Recommendations

Suisun Marsh Ecosystem Restoration Plan

Consideration of Other Plans

Ongoing Studies by Federal, State, and Local Agencies

Delta Vision Strategic Plan Actions

Input from Other Agencies and Interested Parties

Consideration of Regulations and Legal Requirements that Affect the Delta

Identification and Evaluation of Alternatives Considered during Development of Delta Plan [to be completed following Scoping Process]

Range of Alternatives

Identification of Proposed Delta Plan

CHAPTER 5: MANAGE WATER RESOURCES OBJECTIVES: MANAGEMENT OF WATER SUPPLIES AND DEMANDS; IMPLEMENTATION OF STATEWIDE CONSERVATION, WATER USE EFFICIENCY, AND SUSTAINABLE WATER USE; IMPROVE CONVEYANCE AND STATEWIDE STORAGE; Manage Water Resources of the State over the Long Term; Promote Statewide Conservation, Water Use Efficiency, and Sustainable Water Use; Improve the Water Conveyance System and Expand Statewide Water Storage

Coequal Goals

Objectives

Findings

Strategies, Performance Measures, and Targets to Achieve Objectives

Changing Surface Water and Groundwater Resources Characteristics

Changing Water Supply Availability, Reliability, and Usefulness for Beneficial Uses

PRELIMINARY DELTA PLAN OUTLINE - continued

~~Future Changes—including Response to Climate Change and Sea Level Rise~~

~~Policies and Strategies to Achieve Coequal Goals~~

~~Examples or Case Studies—including Illustrative Maps~~

~~Required Performance Measures and Targets with Monitoring Guidance~~

~~Consequential Responses for Non-Achievement of Performance Measures and Targets~~

~~Adaptive Management: Recognition of Uncertainty and Responses~~

~~Facts to Meet Policy Objectives: Data Management, Synthesis, and Communications~~

~~Good Science and Good Water Resources Management—Both Needed to Achieve Coequal Goals~~

CHAPTER 6: RESTORE DELTA ECOSYSTEM: Restore the Delta Ecosystem, including its Fisheries and Wildlife, as the Heart of a Healthy Estuary and Wetland Ecosystem-AS THE HEART OF A HEALTHY ESTUARY AND WETLAND ECOSYSTEM

Coequal Goals

Objectives

Findings

Strategies, Performance Measures, and Targets to Achieve Objectives

~~Changes and Consequences in Delta Ecosystem since the 1800s~~

~~Future Changes—including Response to Climate Change and Sea Level Rise~~

~~Policies and Strategies to Achieve Coequal Goals~~

~~Examples or Case Studies—including Illustrative Maps~~

~~Required Performance Measures and Targets with Monitoring Guidance~~

~~Consequential Responses for Non-Achievement of Performance Measures and Targets~~

~~Adaptive Management: Recognition of Uncertainty and Responses~~

~~Facts to Meet Policy Objectives: Data Management, Synthesis, and Communications~~

~~Good Science and Good Water Resources Management—Both Needed to Achieve Coequal Goals~~

CHAPTER 7: IMPROVE WATER QUALITY: To Protect Human Health and the Environment Consistent with Achieving Water Quality Objectives-TO PROTECT HUMAN HEALTH, ENVIRONMENTAL, AGRICULTURAL, INDUSTRIAL, AND RECREATIONAL USES

Coequal Goals

Objectives

Findings

Strategies, Performance Measures, and Targets to Achieve Objectives

PRELIMINARY DELTA PLAN OUTLINE - continued

~~Changes and Consequences of Delta Water Quality since the 1800s~~

~~Future Changes including Response to Climate Change and Sea Level Rise~~

~~Policies and Strategies to Achieve Coequal Goals~~

~~Examples or Case Studies including Illustrative Maps~~

~~Required Performance Measures and Targets with Monitoring Guidance~~

~~Consequential Responses for Non-Achievement of Performance Measures and Targets~~

~~Adaptive Management: Recognition of Uncertainty and Responses~~

~~Facts to Meet Policy Objectives: Data Management, Synthesis, and Communications~~

~~Good Science and Good Water Resources Management Both Needed to Achieve Coequal Goals~~

CHAPTER 8: REDUCE RISKS: To People, Property, and State Interests in the Delta by Effective Emergency Preparedness, Appropriate Land Uses, and Investments in Flood Protection TO PEOPLE, PROPERTY, AND STATE INTERESTS IN THE DELTA BY EFFECTIVE EMERGENCY PREPAREDNESS, APPROPRIATE LAND USES, AND INVESTMENTS IN FLOOD PROTECTION.

Coequal Goals

Objectives

Findings

Strategies, Performance Measures, and Targets to Achieve Objectives

~~Changes and Consequences in Delta Risks to Land Use and Communities since the 1800s~~

~~Future Changes including Response to Climate Change and Sea Level Rise~~

~~Policies and Strategies to Achieve Coequal Goals~~

~~Examples or Case Studies including Illustrative Maps~~

~~Strategic Levee Investments~~

~~Required Performance Measures and Targets with Monitoring Guidance~~

~~Consequential Responses for Non-Achievement of Performance Measures and Targets~~

~~Adaptive Management: Recognition of Uncertainty and Responses~~

~~Facts to Meet Policy Objectives: Data Management, Synthesis, and Communications~~

~~Good Science and Good Water Resources Management Both Needed to Achieve Coequal Goals~~

CHAPTER 9: PROTECT AND ENHANCE THE UNIQUE CULTURAL, RECREATIONAL, AND AGRICULTURAL VALUES OF THE CALIFORNIA DELTA AS AN EVOLVING PLACE, INCLUDING STATE INTERESTS

Coequal Goals

Objectives

PRELIMINARY DELTA PLAN OUTLINE - continued

Findings

Strategies, Performance Measures, and Targets to Achieve Objectives

~~Changes and Consequences in Delta Land Use and Communities since the 1800s~~

~~Changes and Consequences in Delta Natural Resources since the 1800s~~

~~Changes and Consequences in Delta Economy since the 1800s~~

~~Future Changes including Response to Climate Change and Sea Level Rise~~

Policies and Strategies to Achieve Coequal Goals

~~Examples or Case Studies including Illustrative Maps~~

Required Performance Measures and Targets with Monitoring Guidance

~~Consequential Responses for Non-Achievement of Performance Measures and Targets~~

Adaptive Management: Recognition of Uncertainty and Responses

~~Facts to Meet Policy Objectives: Data Management, Synthesis, and Communications~~

~~Good Science and Good Water Resources Management Both Needed to Achieve Coequal Goals~~

IMPLEMENTATION OF INTEGRATED POLICY OBJECTIVES IN THE DELTA PLAN

Overall and Integrated Future Changes in the Delta due to Implementation of the Delta Plan

~~Future Changes in the Near Term~~

~~Future Changes in the Long Term including Response to Climate Change and Sea Level Rise~~

CHAPTER 10: GOVERNANCE PLAN TO SUPPORT COEQUAL GOALS : OPERATIONS THROUGH THE YEAR 2100

Implementation of the to Achieve Coequal Goals and all Inherent Subgoals and Policy Objectives

Implementation by Delta Stewardship Council

Recommendations to Other Agencies

Recommendations to the Legislature

Delta Stewardship Council Authorities and Procedures

Performance Measures and Targets with Monitoring and Evaluation for Strategies

Use of Best Available Science and Other Best Practices

Monitoring and Evaluation

Analysis, Synthesis, Communication

Consequences for Not Achieving Strategies

Adaptive Management Decision Making Process

Basis for ~~Future~~ Findings of Consistency

PRELIMINARY DELTA PLAN OUTLINE - continued

Communications Plan to Implement the Delta Plan

~~Adaptive Management Program using Best Available Science and Engineering Practices~~

~~Five Year Review Process~~

Five-Year Review Process in Accordance with SBX7 1

Policy to Provide for Interim Review Process (less than five year periods)

CHAPTER 11: FINANCE PLAN TO SUPPORT COEQUAL GOALS

~~Delta Stewardship Council Operations~~

~~Implementation of the Coequal Goals~~

Introduction

Purpose - Finance Plan that Achieve Coequal Goals

Approach to Finance Plan

Scope of Finance Plan

Integration with Other Programs

Background

Historical Expenditures for Water Resources, Flood Management, Ecosystem, Recreation, and Community Support

Existing State Financial Condition

Transition from CALFED

Guiding Principles

Financing Needs

First Five Years

Near Term (2025)

Mid-Century (2050)

Long Term (2100)

Existing Funding Sources and Funding Challenge

Potential Funding Sources

Approaches by Other Major Programs

Capital Funding

Federal

State Bonds (GO and Revenue)

Private, Charitable Foundations

Local

Operations and Maintenance Funding

PRELIMINARY DELTA PLAN OUTLINE - continued

User Charges for Water

General Fund

Fines and Forfeitures

Reallocation/Efficiencies

Carbon Offsets

Other Charges/Fees

Water Marketing Fees

Stressor Charges

Public Goods Charges

Recommended Financing Strategy

Economic Impacts to the State

CHAPTER 12: DELTA PLAN: INTEGRATION OF STRATEGIES, PERFORMANCE MEASURES AND TARGETS, AND ADAPTIVE MANAGEMENT TO ACCOMPLISH COEQUAL GOALS AND OBJECTIVES

Integration of Strategies to Accomplish Multiple Objectives

Inclusion of Science, Engineering, and Adaptive Management

Continued Use of Best Available Science

Continued Use of Best Engineering Practices (including consideration of life cycle values and regulatory requirements)

Incorporation of Data during Implementation of Delta Plan

Use of Adaptive Management

First Five Years

Implementation Actions by Delta Stewardship Council

Implementation Actions by Other Agencies

Need for Legislative Actions

Illustrative Maps

Near Term Implementation (by 2025)

Implementation Actions by Delta Stewardship Council

Implementation Actions by Other Agencies

Need for Legislative Actions

Illustrative Maps

Mid-Century Implementation (by 2050)

Implementation Actions by Delta Stewardship Council

Implementation Actions by Other Agencies

Need for Legislative Actions

PRELIMINARY DELTA PLAN OUTLINE - continued

Illustrative Maps

Long Term Implementation (by 2100)

Implementation Actions by Delta Stewardship Council

Implementation Actions by Other Agencies

Need for Legislative Actions

Illustrative Maps

REFERENCES AND LITERATURE CITED

APPENDICES

Science and Adaptive Management Approach

Independent Science Board Reviews

Considerations for Best Available Science

Historical, Existing, and Projected Risks to the Delta

Consideration of Delta Vision Strategies

Examples or Case Studies - including Illustrative Maps

Others as Needed

Definitions Used in Delta Plan Outline

Coequal Goals: Defined by Water Code 85054 - "Coequal goals" means the two goals of providing a more reliable water supply for California and protecting, restoring, and enhancing the Delta ecosystem. The coequal goals shall be achieved in a manner that protects and enhances the unique cultural, recreational, natural resource, and agricultural values of the Delta as an evolving place. Coequal goals are further defined in Sections 85054, 85020, 85021, 85022(c), and 85023 of the Water Code.

Objective: Desired results that are tangible, precise, and measurable that promotes long-term vision and/or supports short-term incentives.

Finding: A conclusion reached after examination or investigation.

Strategy: A plan or approach to accomplish a goal or objective.

SBX7 1 Requires the Council to also include the following in the Delta Plan :

Performance Measure: Metric that is data-oriented, quantifiable, and collectable to determine progress t for successful implementation of a strategy.

Target: Achievable and quantifiable metric or level of performance to be achieved in a specific time period for successful implementation of a strategy.